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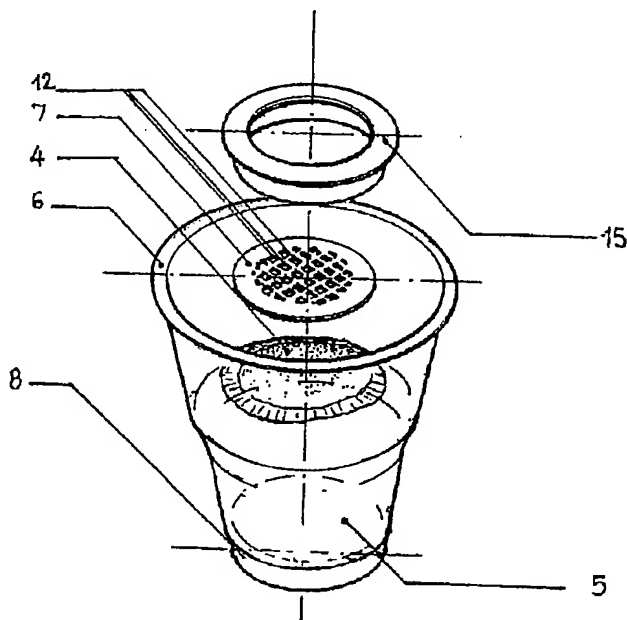
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(54) Title: CONTAINER FOR PREPARING AND DRINKING BEVERAGES



(57) Abrégé/Abstract:

The invention is an embodiment used in the preparation of drinks consumed hot or cold, the same contains a reservoir (2), a drink extract (4), and splitting means (7) that split the mentioned reservoir (2) into two sections (5, 6), namely the first section (6) and the second section (5), and that confines the mentioned extract (4) within the second section (5), and thus making the liquid (1) to be consumed ready for use by confinement of the drink extract (4) in the second section (5) and liquid interaction between the first (6) section and the second (5) section by virtue of liquid passage tracks (12).

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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/TR00/00023 <b>(22) International Filing Date:</b> 11 May 2000 (11.05.00) <b>(30) Priority Data:</b> 99/01027 11 May 1999 (11.05.99) TR <b>(71) Applicant (for all designated States except US):</b> PRATIK GIDA PLASTIK SAN. VE DIS TIC. LTD. STI [TR/TR]; Moda Cad. Ozgur Ishani No. 46-202 Kadikoy, 81300 Istanbul (TR). <b>(72) Inventor; and</b> <b>(75) Inventor/Applicant (for US only):</b> DEMIRKAN, Haluk [TR/TR]; Baglarbasi Kurt Celebi Sok. Kurt Apt. No. 46/4 Icdiye Mah. Uskudar, 81200 Istanbul (TR). <b>(74) Agent:</b> BURSA PATENT LTD. STI; Tophane Ortapazar Cad. No. 7, 16040 Bursa (TR).		<b>(81) Designated States:</b> AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> CONTAINER FOR PREPARING AND DRINKING BEVERAGES		
<b>(57) Abstract</b>		
<p>The invention is an embodiment used in the preparation of drinks consumed hot or cold, the same contains a reservoir (2), a drink extract (4), and splitting means (7) that split the mentioned reservoir (2) into two sections (5, 6), namely the first section (6) and the second section (5), and that confines the mentioned extract (4) within the second section (5), and thus making the liquid (1) to be consumed ready for use by confinement of the drink extract (4) in the second section (5) and liquid interaction between the first (6) section and the second (5) section by virtue of liquid passage tracks (12).</p>		

## CONTAINER FOR PREPARING AND DRINKING BEVERAGES

**TECHNICAL FIELD**

The present invention relates to forming of an embodiment providing  
5 consumption of hot and cold liquid substances of general use without any  
preparation. More particularly the present invention relates to confinement of a  
system with or without tea bag containing drink extracts and an embodiment  
providing easy and preferable drink possible, which is used in the formation of  
hot and/or cold drinks.

10 **BACKGROUND OF INVENTION**

This is a patent application made in addition to the patent application regarding  
the invention processed in the records of Turkish Patent Office no : 1999/01027.

In the embodiments constituting the prior art, the products are readied for  
drinking by dissolving in a cup, and presented to customers in tea bags, like  
15 tea, rose hip, soup, coffee, and fruit extracts.

As it is known, a tea bag is immersed into a cup of hot water, without bothering  
about brewing, the drink is ready for drinking in a short time with the interaction  
of tea confined in the said bag with water.

The problem mostly encountered in the present embodiments, that are  
20 produced to be used once, is the one encountered in the removal of the bag.  
Further, undesirable conditions may arise, too, during drinking and when the  
bag is in the cup.

A different embodiment, freed from the appearance of bag or extract, for these  
products that are in the ready-drink sector due to their ease of use and  
25 practicality, has come a necessity.

It bears importance that they are produced to be used once, and that they cannot be easily disassembled and assembled by people malignant purposes, because of their structure, and it is also important that it be impossible to use them more than once.

5 **DESCRIPTION OF INVENTION**

By referring the problems and needs mentioned above, the object of the present invention is to provide a secure and easy drinking experience to the user in his relaxed environment (home, holiday etc.) in his environment of effort (work), and in his social environment for tea, linden tea, rose hip, coffee and fruit  
10 extracts of all kind and all concentrated drinks.

In other words, the object of the present invention is to present an embodiment that provides making hot or cold drinks, by the aid of a drink container which is constituted with paper, wood, glass, plastic, metal or similar material or their mixture or derivatives, and that contains tea, linden tea, rose hip, soup, coffee,  
15 or fruit extracts of all kinds, and extracts of all concentrated drinks containing these without the need for a secondary usage.

Another object of the present invention is to obtain and consume said drink without requiring any time and preliminary action.

Another object of the present invention is to preclude a secondary usage of the same cup and the same drink extract by persons of malignant purpose .  
20

Further object of the present invention is to serve a new function as to plant seedling purposes after having used.

The present invention presents an embodiment that splits up the cup in two sections named the first section and the second section that has splitting means  
25 that confines the said extract in the second section; and that makes the drink ready to use by confining the extract in the second section and by virtue of liquid interaction between the first and the second section.

The main unit according to the embodiment of the invention is the splitting of the drinking cup into at least two sections by virtue of splitting means, and confinement of the drink extract in one of these sections.

Accordingly, it is possible to form many embodiments for the said splitting  
5 means.

In an embodiment for instance, a barrier surface like a bracket in a section preferably close to the base in the drinking cup, called reservoir, is formed. Beneath that, in the production phase a further perforated structure (this may alternatively be called filtering unit) is placed. The said barrier surface may be  
10 attached to the reservoir by a proper connection method, and it may be applied by simply tightening, as well. The said barrier surface may be fixed to the base of the reservoir by a downward projecting part .

In another embodiment as an example, the said splitting means have a perforated structure, and the said perforated structure contains locking means,  
15 in contact with the locking foot formed above the said reservoir.

In the embodiment, the said splitting means is formed, in the first and the second section (5,6), consisting of one piece with the said section to contain a perforated structure (7). Thus two different sections are joined into one with a proper connection method.

20 It is obvious that the embodiments mentioned above, and their counterparts may be made of plastics, wood, glass, paper, metal and derivatives or alloys of these materials, and that said splitting means may be embodied in a single part or more than one part separately or solidly.

The purposes, aspects, and the advantages of the present invention will be  
25 better understood, when a structural embodiment, shown by the annexed drawings and given only as an example, is explained.

The present invention is described in detail, based on an application example, taking the drawings as a reference.

#### BRIEF DESCRIPTION OF THE DRAWINGS

- 5      Figure 1- Cross-sectional view of the embodiment hindering a second use in disassembly.
- Figure 2- Cross-sectional view of the embodiment hindering a second use in assembly.
- Figure 3- Cross-sectional view of the embodiment realized without using filtering unit in assembly.
- 10    Figure 4- View of the embodiment wherein the filtering unit is fixed without employing any linking or connection procedure.
- Figure 5- View of the embodiment wherein the filtering unit is fixed via locking ratchets and feet.
- 15    Figure 6- Cross-sectional view of a formed embodiment, wherein the filtering unit and the extract is placed within a bracket with trotters that is covered and fixed by ultrasonic welding or attaching, wherein the filtering unit is in the second section.
- Figure 7- Cross-sectional view of the embodiment wherein bracket with trotters is used in assembly.
- 20    Figure 8- Cross-sectional view of another formed embodiment, wherein the filtering unit and the extract is placed within a bracket with trotters that is covered and fixed by ultrasonic welding or attaching, wherein the filtering unit is in the second section.
- 25    Figure 9- Cross-sectional view of the embodiment wherein bracket without trotters is used in assembly.

## DETAILED DESCRIPTION OF THE INVENTION

Figure 1 shows a disassembled cross-section view of the embodiment that does not allow a secondary usage thereof. The drink (1) to be consumed is collected in a reservoir (2). The said reservoir (2) is split into two sections by a splitting plane (3), as the first (6) and second section (5).

Ready drinking extracts in bags (tea, linden tea, rose hip, etc.) to be drunk hot or cold are placed in the second section (5).

A filtering element (7), that does not allow the solid substances to pass thereof, but allows the liquid to pass, is placed between the second (5) and the first sections (6).

The second section (5) where the drink extract (4) is placed is formed as follows: There is a sudden contraction of diameter on the splitting plane (3) that forms the base of the first section (6). By placing drink extract (4) in the lower base of the first section (8), and covering the drink extract (4) with the filtering unit (7), the lower base section (8) is joined to the body (9) by employing a connection technique suitable for the chosen material. As consequence of this joining procedure, the drink extract (4) in tea bag is placed in the second section, without making a secondary usage possible. That is, it is not possible to reach the drink extract without destroying either the body (9) or the lower base (8) section.

Figure 2 shows the assembled pattern of the parts with the liquid (1) in the reservoir (2), after mounting procedure.

Figure 3 depicts a mounted cross-section view of the embodiment realized without using filtering unit (7). In the absence of a filtering unit, the object of the filtering unit (7) is realized by liquid passage tracks (12) formed on the body (9). By joining the lower base (8) section with the body (9), two sections are formed named the first (6) and the second section (5).

Figure 4 illustrates an alternative embodiment for the invention. Again, the reservoir (2) is split into two by a splitting plane (3) as the first (6) and the second section (5), but there is not any contraction in the diameter. A tightening surface is formed by virtue of tightening wings (10) surrounding the filtering unit (7). The tightening surface (11) is sloped a little, which is tightened by repressing the filtering unit (7) in the reservoir (2) and fixes the filtering unit. After fixing, the reservoir (2) is split into two sections, namely the first (6) and the second section (5). Only a reversible liquid passage is realized between these two reservoirs, via the liquid passage tracks (12). The structure of the filtering unit prevents passage of solids.

The filtering unit (7) has liquid passage tracks (12) formed on the surface thereof. These tracks (12) does not prevent liquid passage, but since they are scattered on the surface, they do not allow any solid substance to pass.

Another alternative embodiment is depicted in Figure 5. Therein the fixing of filtering unit and the splitting of the reservoir (2) into two sections (6,5) is realized by tightening, this takes place when the locking feet (14) formed on the filtering unit enters into the locking ratchets (13) formed on the body (9).

Figures 6 and 7 illustrate an embodiment wherein the filtering unit (7) and the extract are placed in a bracket with trotters (15) and wherein the same is fixed by ultrasonic welding or attached with glue. In this embodiment, the filtering unit (7) is formed by virtue of confining the extract (4) in a reservoir (5) at the bottom (8) of the cup, namely the lower base (8) in a bracket (15). Therein the hot or cold liquid (1) poured into the first section (6) by passing through liquid passage tracks (12), reaches to the bagged or free drink extract (4) in the substances in the extract into the liquid to be consumed (1). Furthermore, the liquid passage tracks released state of the filtering unit (7) in the second section (5), the liquid (1) to be consumed in the first section (5) easily interacts with the extract (4) at the same time its piston-like movements provides a more rapid circulation of the



liquid flowing from the liquid passage tracks (12), thereby producing a fast growing of color, and a rapid brewing.

Figures 8 and 9 show the condition of the said bracket (15) produced with and without trotters. Here, again, the filtering unit (7) moves in the second section  
5 (5).

Doubtlessly, the present invention cannot be limited to its different structural embodiments mentioned here. Many different embodiments may be designed by experts in order to form a first (6) and a second section (5).

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*Amended Claims***CLAIMS**

1. An instant type drink cup comprising at least two sections separated by a splitting means, as the first section for containing water and the second section for confining drink extract via fixed perforated means to side walls of the cup  
5 characterized in that said splitting means comprises at least two partitions as a bracket (15) fixed to the side walls of the drink cup and perforated means (7) movable in the second section.
2. An instant type drink cup according to claim 1, characterized in that said bracket (15) is embodied as an annular structure having an inner diameter  
10 larger than the diameter of the perforated means (7) so that the latter is confined in the said second section.
3. An instant type drink cup according to claim 1 and 2, characterized in that the splitting means is provided by a perforated structure (7) with locking feet (14) underneath, which are in contact with locking ratchets (13) formed on the  
15 said cup.
4. An instant type drink cup according to claim 1 to 3, characterized in that the said perforated means (7) is movable in the downward direction when a force is exerted from the surface not contacted with the drink extract.
5. A container according to previous claims, characterized in that said cup,  
20 after used, is utilized as plant seedling, benefiting from fertilizer nature of the drink extract, without spoiling the structure of the cup just used.

**AMENDED SHEET**

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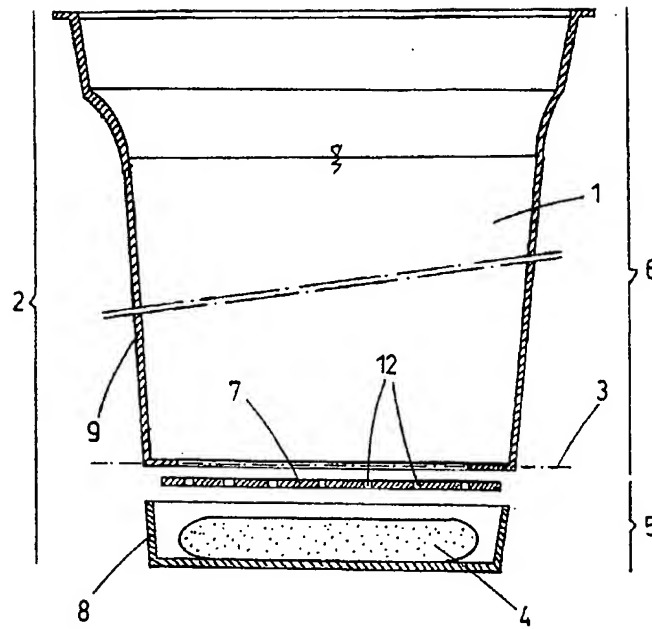


FIG. 1

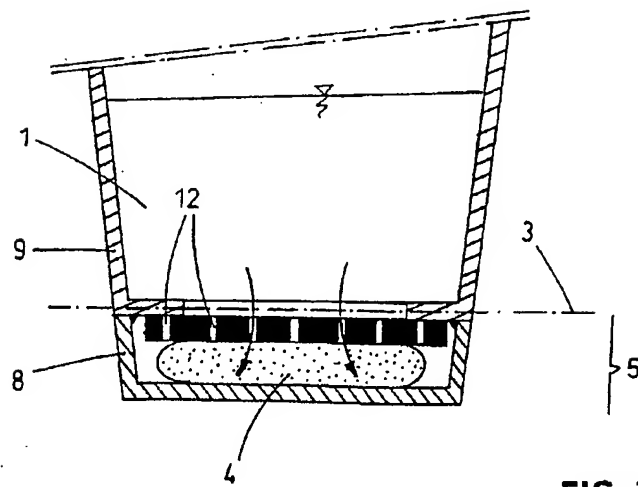


FIG. 2

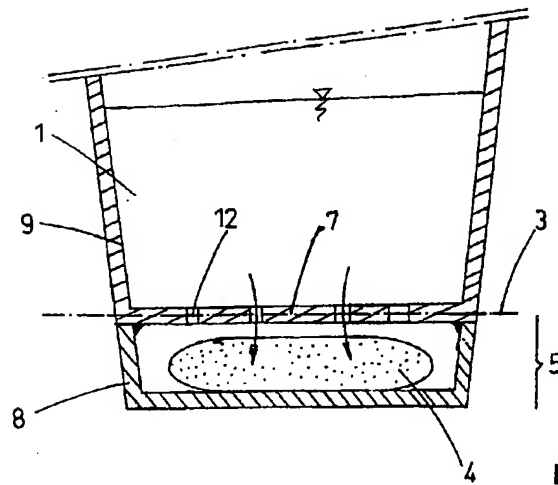


FIG. 3

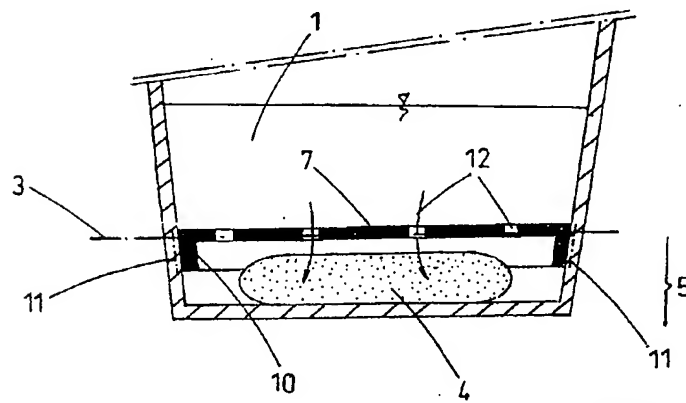


FIG. 4

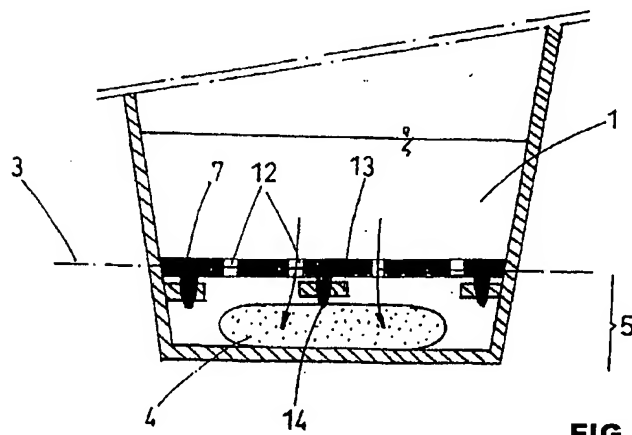


FIG. 5

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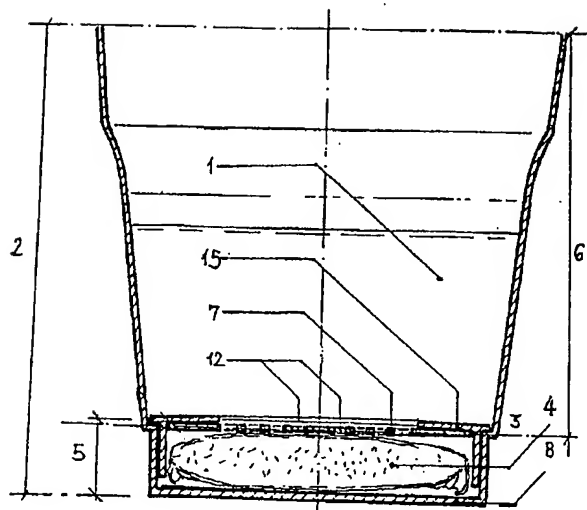


FIG. 6

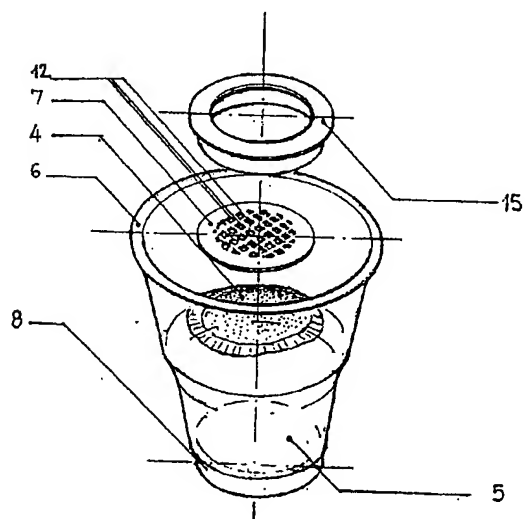


FIG. 7

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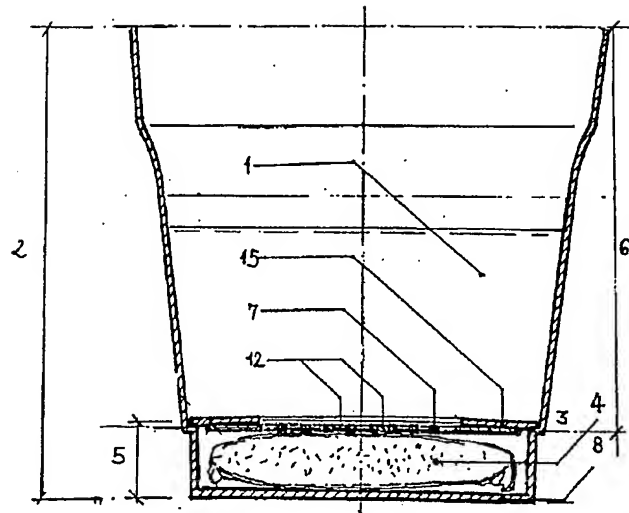


FIG. 8

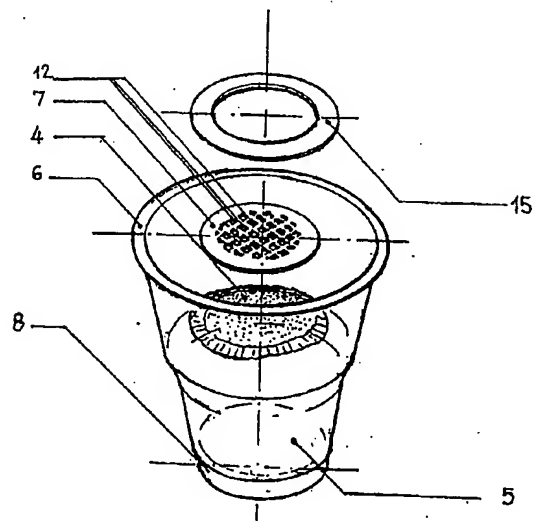


FIG. 9

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